

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/DE 03/01202

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 B29C45/00 B29C49/06 B29C49/64

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 690 633 A (HUGHES GARY ET AL) 1 September 1987 (1987-09-01) column 8, line 22 - line 42; figure 7	1-4, 7, 8, 14 5, 6, 9-13, 15-33
Y	PATENT ABSTRACTS OF JAPAN vol. 005, no. 190 (M-100), 4 December 1981 (1981-12-04) & JP 56 113433 A (INOUE MTP CO LTD), 7 September 1981 (1981-09-07) abstract	5, 6, 9-13, 15-33
Y	US 6 332 770 B1 (BRAND TIEMO ET AL) 25 December 2001 (2001-12-25) column 5, line 63 - line 65 column 6, line 2 - line 3	11, 27-33
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

14 August 2003

Date of mailing of the International search report

25/08/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) & JP 07 276485 A (UBE IND LTD), 24 October 1995 (1995-10-24) abstract ---	31-33
A	EP 0 763 415 A (HERBST RICHARD) 19 March 1997 (1997-03-19) column 3, line 49 - line 51; figure 3B column 4, line 18 - line 20 -----	1-13

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE 03/01202

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4690633	A	01-09-1987	US	4522581 A		11-06-1985
			AT	56913 T		15-10-1990
			AT	68122 T		15-10-1991
			AU	587390 B2		17-08-1989
			AU	4611185 A		13-03-1986
			AU	577237 B2		15-09-1988
			AU	8298987 A		28-04-1988
			BR	8503208 A		09-12-1986
			CA	1289503 C		24-09-1991
			CA	1289504 C2		24-09-1991
			DE	3579876 D1		31-10-1990
			DE	3584375 D1		14-11-1991
			EP	0173818 A2		12-03-1986
			EP	0266804 A2		11-05-1988
			US	4793960 A		27-12-1988
			US	4729732 A		08-03-1988
			JP	1715050 C		27-11-1992
			JP	4002421 B		17-01-1992
			JP	61076342 A		18-04-1986
JP 56113433	A	07-09-1981		NONE		
US 6332770	B1	25-12-2001	US	2002028265 A1		07-03-2002
JP 07276485	A	24-10-1995		NONE		
EP 0763415	A	19-03-1997	DE	19532969 A1		13-03-1997
			EP	0763415 A1		19-03-1997